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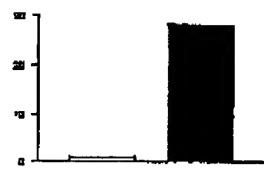


Figure 1 IHG-1 mRNA levels are increased by high extracellular glucose in human mesangial cells.

Influence of high ambient glucose on IHG-1 mRNA levels in human mesangial cells. Mesangial cells were exposed to 5 mM glucose (white box) and 30 mM glucose (black box) for 7 days. Quantitative real time PCR analysis of IHG-1 expression, data are presented as ratio of target gene to ribosomal RNA control. IHG-1 levels are increased approximately 29-fold following exposure to 30mM glucose for 7 days.

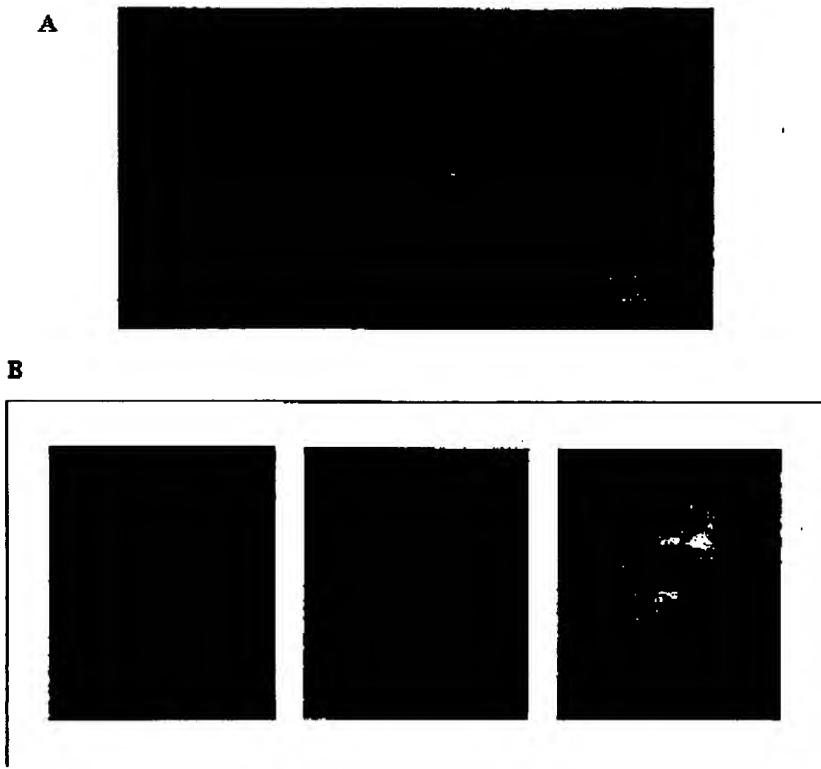


Figure 2: IHG-1 Expression is Localised to the Mitochondria.

**A.** *Immunocytochemistry of Primary Human Mesangial Cells (HMCs) overexpressing VS tagged IHG-1.* HMC were transiently transfected with VS-tagged IHG-1 in PCDNA6. Cells were fixed in 3.7% paraformaldehyde, permeabilized and stained with anti-VS and FITC conjugated secondary antibody.

**B.** *Immunocytochemistry of Mink Lung Cells overexpressing VS-Tagged IHG-1.* Cells were treated as in A and co-stained for the mitochondrial protein MnSOD and FITC conjugated secondary antibody (left panel) and anti-VS and Texas Red conjugated secondary antibody (middle panel). The merged image (right panel) shows that IHG-1 is localised to the mitochondria.